

IDENTIFYING AND FIXING GAPS IN SAP MASTER DATA

BACKGROUND

Glencore Coal Australia deployed SAP as their ERP and asset management system in 2016. Glencore Coal sites have been adding Maintenance Tasks, Maintenance Plans/Items & Bill of Materials on a site-by-site basis. While some good information was added to SAP, lack of a consistent approach led to the following issues:

GLENCORE

- Not all parts had been catalogued leading to some parts being ordered outside of the system (direct purchase) incurring additional administration cost for each order.
- Maintenance budgets could not be prepared entirely from SAP data. The manual intervention takes time and the budget is not linked to the maintenance plan.
- Ad-hoc BOMs were needed for jobs where no BOM existed. This compromised quality and took additional planning time.

PROJECT

COSOL was engaged to perform an audit and support the data review and update. COSOL handled the complete project from data audit to the creation of SAP load files to add/extend materials and update the parts catalogue. The project steps were:

- Audit SAP asset master data across 26 sites for Glencore Coal Australia
- Identify gaps in the data and prepare a report
- Build a plan to prioritise and fix issues identified in the audit
- Develop new data to fill the gaps in tasks, plans and BOMs
- Ensure site-validated BOMs in place for all major maintenance tasks and services
- Use any good work created by Glencore to date where possible
- If new data is created for one site/equipment, leverage this information for other sites that have similar equipment
- Catalogue parts added to BOMs (Extend parts to site if they exist in the master Catalogue or create new catalogue items)
- Created SAP load files to update the system with validated data



APPROACH

COSOL has developed software tools and processes used by our master data team to efficiently audit, review and validate client Master Data against best practice. Clients can then make decisions about which data can be kept and what needs to be review. The tools guide clients by highlighting issues and making suggestions about action to take to improve the data quality. Once clients have validated the data, SAP load sheets are developed to update the master data.

The main parts of the process are:

- COSOL provided a list of strategies for each asset to compare client task coverage on a site and equipment basis against best practice - Glencore could choose to add additional tasks from the list.
- An algorithm was used to identify variations at the part number level between client BOMs and COSOL developed BOMs. Glencore then made decisions about what parts should be used. The algorithm also identified superseded and duplicate parts.
- The Algorithm compared the BOM data to Glencore's master catalogue and identified parts as Catalogued, not catalogued or needing to be extended.
- The completed master data was sent to Glencore for final review. The algorithm highlighted errors for easy review by Glencore.
- To complete the project, COSOL built the validated master data into SAP load sheets.

COSOL are **SAP** ERP specialists with over 20 years experience helping asset intensive organisations implement and upgrade their ERP systems as part of their asset information ecosystem.



CASE STUDY

NATURAL RESOURCES

OUTCOME

The following outcomes were achieved for the project:

- ✓ Consistent execution strategy across multiple sites.
- ✓ Validated BOMs ensure the right parts are ordered for the job.
- ✓ More complete Task and BOM coverage increased the planners' efficiency.
- ✓ Catalogued parts reduce the administration costs order parts.
- ✓ More accurate maintenance budgets can be created from better quality/more complete master data reducing the risk of cost overruns.

COSOL: When Reliability Matters

COSOL is built on one belief: in asset-intensive industries, reliability is everything. We are a trusted, Intelligent Asset Operations partner - known for our deep expertise, dependable delivery, and ability to keep critical assets performing at their best



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